



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Br
Search PubMed for
Limits Preview/Index History Clipboard Details

About Entrez

Abstract Text

Text Version

☐ 1: J Natl Cancer Inst. 1989 Sep 20;81(18):1387-92.[Related Articles, Links](#)

Entrez PubMed

Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services

Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Related Resources

Order Documents
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Augmentation of antiproliferative activity of interferon alfa against human bladder tumor cell lines by encapsulation of interferon alfa within liposomes.

Killion JJ, Fan D, Bucana CD, Frangos DN, Price JE, Fidler IJ.

Department of Cell Biology, University of Texas M.D. Anderson Cancer Center, Houston 77030.

Present therapy for human bladder cancer includes the intravesical administration of antiproliferative agents, such as recombinant human interferon alfa (IFN- α). The administration of cytotoxic molecules encapsulated in liposomes could provide a more efficient method for such therapy. Therefore, we determined whether encapsulation of the recombinant human IFN- α hybrid BBDD within liposomes will produce antitumor effects against the human bladder cancer cell line 253J superior to those observed with free IFN- α . Adherent cells were cultured in medium alone, in medium containing different concentrations of IFN- α , or in medium containing multilamellar liposomes (phosphatidylcholine-phosphatidylserine at a molar ratio of 7:3) that encapsulated saline or IFN- α . Cell growth was determined 96-120 hours later. Additional control groups consisted of target cells cultured with free IFN- α or with IFN- α plus liposomes containing saline. Cytostasis mediated by free IFN- α alone or IFN- α in the presence of liposome-saline was identical and ranged from 0%-30% (10 IU/mL) to 45%-70% (1,000 IU/mL). Liposomes containing saline produced no effects. Liposome-encapsulated IFN- α produced significantly greater growth inhibition than free IFN- α : 40%-70% (10 IU/mL) and 80%-90% (1,000 IU/mL), respectively. Moreover, a 253J variant subline selected for resistance to free IFN- α was sensitive to IFN- α presented in liposomes. These data suggest that the encapsulation of antiproliferative agents such as IFN- α in liposomes can improve therapeutic results.

PMID: 2778824 [PubMed - indexed for MEDLINE]

Abstract Text



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Br

Search PubMed for [] [Preview] [Go] [Clear]

Limits Preview/Index History Clipboard Details

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

Search	Most Recent Queries	Time	Result
#68	Search ifn alpha b* AND liposom*	15:13:48	<u>3</u>
#67	Search ifn alpha b* AND lipsom*	15:13:44	<u>0</u>
#66	Search ifn alpha b*	15:13:26	<u>1061</u>
#65	Search ifn alpha bdbb	15:13:09	<u>20053</u>
#61	Related Articles for PubMed (Select 2778824)	15:11:16	<u>139</u>
#58	Search IFN-alpha bdbb	15:09:44	<u>3</u>
#56	Search IFN-alpha hybrid	15:09:09	<u>136</u>
#54	Related Articles for PubMed (Select 10502632)	15:07:36	<u>180</u>
#53	Search IFN-alpha BDBB	15:06:53	<u>2</u>
#51	Search interferon alpha bdbb	15:03:07	<u>2</u>
#42	Search bd hybrids	14:13:52	<u>13</u>
#41	Search interferon bd AND liposome	14:08:47	<u>0</u>
#40	Search interferon bd	14:08:31	<u>81</u>
#39	Search interferon bd hybrid	14:08:27	<u>0</u>
#31	Search alpha interferon bd hybrid	14:08:21	<u>0</u>
#38	Search yu m	14:07:22	<u>1427</u>
#37	Search yu misook	14:07:16	<u>0</u>
#27	Search alpha interferon bd	14:01:35	<u>21</u>
#32	Search alpha interferon b/d hybrid	14:01:29	<u>0</u>
#34	Search alpha interferon bdbb	14:01:03	<u>2</u>
#33	Search alpha interferon b/d	14:00:51	<u>0</u>
#26	Search bd interferon		